I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited on this date in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number <u>EJ199094763US</u> addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

	Vicki Collins
	(Type or print name of person mailing paper)
Date: March 7, 2001	(Signature of person mailing paper)
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE	
In re PATENT APPLICATION of) Group Art Unit: Unassigned
Arimilli et al.) Atty. Docket No. 172.2USDC2) Examiner: Unassigned
Serial No: Continuation of 09/247,497))
Filed: March 7, 2001)
Title: NUCLEOTIDE ANALOGS)

PRELIMINARY AMENDMENT

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Please amend this application as follows:

In the Specification

After the title on page 1 of the specification insert "This application is a continuation application of U.S.S.N. 09/247,497, filed February 10, 1999, now pending, which is a continuation application of 09/071,420, filed May 1, 1998, now abandoned, which is a divisional application of 08/617,849 filed May 6, 1996, now Patent No. 5,798,340, which is a continuation application of PCT/US94/10539, filed September 16, 1994, which is a continuation-in-part application of 08/193,341, filed February 8, 1994, now abandoned, which is a continuation-in-part application of 08/123,483, filed September 17, 1993, now Patent No. 5,656,745.

In the Claims

Cancel claims 1-51 without prejudice and substitute new claim 52:

--52. A compound of the formula 2

$$(RO)_{2}P \qquad O_{1} \qquad O_{2}$$

$$R^{34} \qquad S \qquad 2$$

wherein R^{34} is H, CH₂CN, CF₃;

R independently is phenyl, 2- and 3-pyrrolyl, 2- and 3-thienyl, 2- and 4-imidazolyl, 2-, 4- and 5-oxazolyl, 3- and 4-isoxazolyl, 2-, 4- and 5-thiazolyl, 3-, 4- and 5-isothiazolyl, 3- and 4-pyrazolyl, 2-, 3- and 4-pyridinyl, 2-, 4- and 5-pyrimidinyl, 2-, 3- and 4-alkoxyphenyl (C₁-C₁₂ alkyl), 2-, 3- and 4-halophenyl, 2,3-, 2,4-, 2,5-, 2,6-, 3,4- and 3,5-dihalophenyl, 2-, 3- and 4-haloalkylphenyl (1 to 5 halogen atoms, C₁-C₁₂ alkyl), 2-, 3- and 4-cyanophenyl, carboalkoxyphenyl (C₁-C₄ alkyl), 1-, 2-, 3-, and 4-pyridinyl (-C₅H₄N), 2-, 3- and 4-nitrophenyl, 2-, 3- and 4-haloalkylbenzyl (1 to 5 halogen atoms, C₁-C₁₂ alkyl), alkylsalicylphenyl (C₁-C₄ alkyl), 2-,3- and 4-acetylphenyl, -O-C₁₀H₆-OH, -O-C₁₀H₆-O-, -O-C₆H₄-C₆H₄-O- (both oxygen atoms are linked to the phosphorus atom), alkoxy ethyl (C₁-C₆ alkyl), phenoxymethyl, aryloxy ethyl (C₆-C₉ aryl or C₆-C₉ aryl substituted by OH, NH₂, halo, C₁-C₄ alkyl or C₁-C₄ alkyl substituted by OH or by 1 to 3 halo atoms), -C₆H₄-CH₂-N(CH₃)₂, N-ethylmorpholino

adamantoyl oxymethyl, pivaloyloxy(methoxyethyl)methyl (-CH(CH₂CH₂OCH₃)-O-C(O)-C(CH₃)₃),

; -O-CH₂-O-C(O)-C₁₀H₁₅),

pivaloyloxymethyl (-CH₂-O-C(O)-C(CH₃)₃), pivaloyloxy(methoxymethyl)-methyl (-CH(CH₂OCH₃)-O-C(O)-C(CH₃)₃), pivaloyloxyisobutyl (-CH(CH(CH₃)₂)-O-C(O)-C(CH₃)₃) isobutyryloxymethyl (-CH₂-O-C(O)-CH₂-CH(CH₃)₂), cyclohexanoyl oxymethyl (-CH₂-O-C(O)-C₆H₁₁), phenyl (-C₆H₅), benzyl (-CH₂-C₆H₅), isopropyl (-CH(CH₃)₂), t-butyl (-C(CH₃)₃), -CH₂-CH₃, -(CH₂)₂-CH₃, -(CH₂)₃-CH₃, -(CH₂)₄-CH₃, -(CH₂)₅-CH₃, -CH₂-CH₂F, -CH₂-CH₂Cl, -CH₂-CF₃, -CH₂-CCl₃, \mathbb{R}^5 , NHR^{6A} or N(R^{6A})₂:

 $\label{eq:wherein} wherein R^5 is $CH_2C(O)N(R^{6A})_2$, $CH_2C(O)OR^{6A}$, $CH_2OC(O)R^{6A}$, $CH(R^{6A})OC(O)R^{6A}$, $CH_2C(R^{6A})_2CH_2OH$, CH_2OR^{6A}, $NH-CH_2-C(O)O-CH_2CH_3$, $N(CH_3)-CH_2-C(O)O-CH_2CH_3$, NHR^{40}, $CH_2-O-C(O)-C_6H_5$, $CH_2-O-C(O)-C_{10}H_{15}$, $-CH_2-O-C(O)-CH_2CH_3$, $CH_2-O-C(O)-CH(CH_3)_2$, $CH_2-O-C(O)-C(CH_3)_3$, $CH_2-O-C(O)-CH_2-C_6H_5$;}$

wherein R^{6A} is C1-C20 alkyl which is unsubstituted or substituted by substituents independently selected from the group consisting of OH, O, N and halogen (1 to 5 halogen atoms), C6-C20 aryl which is unsubstituted or substituted by substituents independently selected from the group consisting of OH, O, N and halogen (1 to 5 halogen atoms) or C7-C20 aryl-alkyl which is unsubstituted or substituted by substituents independently selected from the group consisting of OH, O, N and halogen (1 to 5 halogen atoms), provided that for compounds of formulas $N(R^{6A})_2$, $CH_2C(O)N(R^{6A})_2$, $CH_2C(O)OR^{6A}$, $CH_2OC(O)R^{6A}$, $CH(R^{6A})OC(O)R^{6A}$ and $CH_2C(R^{6A})_2CH_2OH$, the total number of carbon atoms present is less than 25;

wherein R^{40} is C_1 - C_{20} alkyl; and

B is a 1-pyrimidinyl residue selected from cytosinyl, 5-halocytosinyl, and 5-(C1-C3-alkyl)cytosinyl.--

Remarks

An Information Disclosure Statement with accompanying references will be submitted upon issuance of a filing receipt. If the examiner has not received the Information Disclosure Statement or the references, the examiner is invited to telephone the undersigned to arrange for their dispatch.

This application is believed to be in condition for examination.

Respectfully submitted,

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